Release notes for ENDF/B Development n-044_Ru_105 evaluation



April 26, 2017

- checkr Warnings:
 - 1. A previous error halted parsing of the current section $MAT=4452,\ MF=1,\ MT=451\ (1)$: Parsing stopped

ERROR(S) FOUND IN MAT=4452, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 91 TO 129

- checkr Errors:
 - 1. A variable is outside the allowed ENDF range MAT=4452, MF=1, MT=451 (0): Variable range

ERROR(S) FOUND IN MAT=4452, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 91

2. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=4452,\ MF=2,\ MT=151\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 131

3. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=3, MT=1 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 137

4. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=3, MT=2 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 182

5. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=3, MT=4 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 227

6. Missing a section in directory so your directory is messed up. This error will break everything else $MAT=4452,\ MF=3,\ MT=16\ (0)$: Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 265

7. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=3, MT=17 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 17 SECTION 3/ 17 NOT IN DIRECTORY

RECORD NUMBER 28

8. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 3, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 22 SECTION 3/ 22 NOT IN DIRECTORY

RECORD NUMBER 300

9. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=3, MT=28 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 28

SECTION 3/ 28 NOT IN DIRECTORY

RECORD NUMBER 317

10. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 3, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 51 SECTION 3/ 51 NOT IN DIRECTORY

RECORD NUMBER 331

11. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 3, MT = 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 52 SECTION 3/ 52 NOT IN DIRECTORY

RECORD NUMBER 369

12. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 3, MT = 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 53 SECTION 3/ 53 NOT IN DIRECTORY

RECORD NUMBER 405

13. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 3, MT = 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 54 SECTION 3/54 NOT IN DIRECTORY

RECORD NUMBER 441

14. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=3, MT=55 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 55 SECTION 3/ 55 NOT IN DIRECTORY

RECORD NUMBER 476

15. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 3, MT = 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 56 SECTION 3/ 56 NOT IN DIRECTORY

RECORD NUMBER 510

16. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 3, MT = 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT= 91 SECTION 3/ 91 NOT IN DIRECTORY

RECORD NUMBER 544

17. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 3, MT = 102 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT=102 SECTION 3/102 NOT IN DIRECTORY

RECORD NUMBER 578

18. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 3, MT = 103 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT=103 SECTION 3/103 NOT IN DIRECTORY

RECORD NUMBER 618

19. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 3, MT = 104 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT=104 SECTION 3/104 NOT IN DIRECTORY

RECORD NUMBER 643

20. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=3, MT=105 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT=105

SECTION 3/105 NOT IN DIRECTORY

RECORD NUMBER 660

21. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 3, MT = 107 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 3, MT=107 SECTION 3/107 NOT IN DIRECTORY

RECORD NUMBER 676

22. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=4, MT=2 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 2 SECTION 4/ 2 NOT IN DIRECTORY

RECORD NUMBER 705

23. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=4, MT=16 (0): Directory (b)

3

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 16 SECTION 4/ 16 NOT IN DIRECTORY

RECORD NUMBER 1147

24. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 4, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 17 SECTION 4/ 17 NOT IN DIRECTORY

RECORD NUMBER 1210

25. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 4, MT = 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 22 SECTION 4/ 22 NOT IN DIRECTORY

RECORD NUMBER 1237

26. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 4, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 28 SECTION 4/ 28 NOT IN DIRECTORY

RECORD NUMBER 1280

27. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 4, MT = 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 51 SECTION 4/ 51 NOT IN DIRECTORY

RECORD NUMBER 1317

28. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=4, MT=52 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 52

SECTION 4/ 52 NOT IN DIRECTORY

RECORD NUMBER 1550

29. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 4, MT = 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 53 SECTION 4/ 53 NOT IN DIRECTORY

RECORD NUMBER 1776

30. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=4, MT=54 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 54 SECTION 4/ 54 NOT IN DIRECTORY

RECORD NUMBER 2003

31. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=4, MT=55 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 55 SECTION 4/ 55 NOT IN DIRECTORY

RECORD NUMBER 2098

32. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 4, MT = 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 56 SECTION 4/ 56 NOT IN DIRECTORY

RECORD NUMBER 2296

33. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=4, MT=91 (0): Directory (b)

(-)

ERROR(S) FOUND IN MAT=4452, MF= 4, MT= 91 SECTION 4/ 91 NOT IN DIRECTORY

RECORD NUMBER 2518

34. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 5, MT = 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 5, MT= 16 SECTION 5/ 16 NOT IN DIRECTORY

RECORD NUMBER 2612

35. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 5, MT = 17 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 5, MT= 17 SECTION 5/ 17 NOT IN DIRECTORY

RECORD NUMBER 2902

36. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=5, MT=22 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 5, MT= 22 SECTION 5/ 22 NOT IN DIRECTORY

RECORD NUMBER 3012

37. Missing a section in directory so your directory is messed up. This error will break everything else

MAT = 4452, MF = 5, MT = 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 5, MT= 28 SECTION 5/ 28 NOT IN DIRECTORY

RECORD NUMBER 3195

38. Missing a section in directory so your directory is messed up. This error will break everything else MAT=4452, MF=5, MT=91 (0): Directory (b)

ERROR(S) FOUND IN MAT=4452, MF= 5, MT= 91 SECTION 5/ 91 NOT IN DIRECTORY

RECORD NUMBER 3348

- fudge-4.0 Warnings:
 - 1. Cross section does not match sum of linked reaction cross sections crossSectionSum label 0: total (Error # 0): CS Sum.

• fudge-4.0 Errors:

- 1. Calculated and tabulated Q values disagree.

 reaction label 8: n[multiplicity:'2'] + Ru104 (Error # 0): Q mismatch
 - WARNING: Calculated and tabulated Q-values disagree: -2663822.050933838 eV vs -5.9101e6 eV!
- 2. Calculated and tabulated Q values disagree. reaction label 9: n[multiplicity:'3'] + Ru103 (Error # 0): Q mismatch
 - WARNING: Calculated and tabulated Q-values disagree: -11565236.67440796 eV vs -1.4814e7 eV!
- 3. Calculated and tabulated Q values disagree. reaction label 10: n + H1 + Tc104 (Error # 0): Q mismatch
 - WARNING: Calculated and tabulated Q-values disagree: -7484182.025772095 eV vs -1.0731e7 eV!
- 4. Calculated and tabulated Q values disagree.

 reaction label 11: Ru106 + gamma (Error # 0): Q mismatch
 - WARNING: Calculated and tabulated Q-values disagree: 11712018.24124146 eV vs 8.4652e6 eV!
- 5. Calculated and tabulated Q values disagree. reaction label 12: n + He4 + Mo101 (Error # 0): Q mismatch
 - WARNING: Calculated and tabulated Q-values disagree: -1595061.560119629 eV vs -4.8439e6 eV!
- 6. Calculated and tabulated Q values disagree. reaction label 13: H1 + Tc105-s (Error # 0): Q mismatch
 - WARNING: Calculated and tabulated Q-values disagree: 388622.8443450928 eV vs -2.7992e6 eV!
- 7. Calculated and tabulated Q values disagree. reaction label 14: H2 + Tc104-s (Error # 0): Q mismatch
 - WARNING: Calculated and tabulated Q-values disagree: -5259615.924835205 eV vs -8.5061e6 eV!
- 8. Calculated and tabulated Q values disagree. reaction label 15: H3 + Tc103_s (Error # 0): Q mismatch
 - WARNING: Calculated and tabulated Q-values disagree: -4962838.959320068 eV vs -8.2095e6 eV!
- 9. Calculated and tabulated Q values disagree. reaction label 16: He4 + Mo102_s (Error # 0): Q mismatch
 - WARNING: Calculated and tabulated Q-values disagree: 6522496.165328979 eV vs 3.2738e6 eV!
- njoy2012 Warnings:
 - 1. Evaluation has no resonance parameters given unresr...calculation of unresolved resonance cross sections (0): No RR
 - ---message from unresr---mat 4452 has no resonance parameters copy as is to nout

2. Evaluation has no resonance parameters given purr...probabalistic unresolved calculation (0): No RR

---message from purr---mat 4452 has no resonance parameters copy as is to nout

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 16 only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 17 only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 22 only mf4/mf5 provided

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 28 only mf4/mf5 provided

7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!

groupr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)

---message from conver---cannot do complete particle production for mt= 91 only mf4/mf5 provided